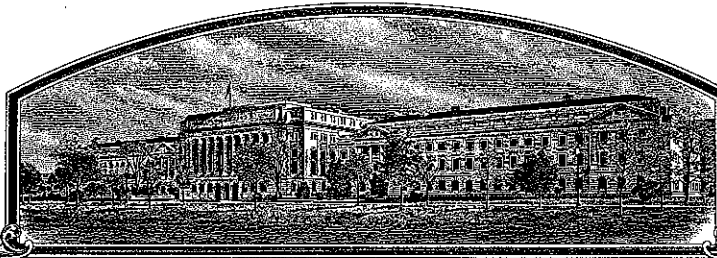


No.

200300320



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Florida Agricultural Experiment Station

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.


NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED IN THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEANUT

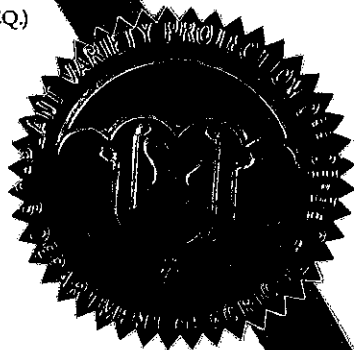
'AP-3'

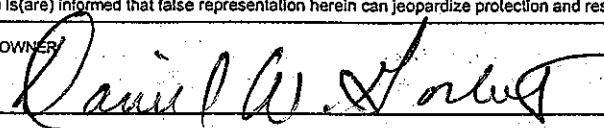
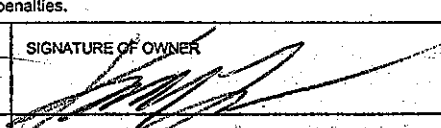
In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-fifth day of August, in the year two thousand and five.

Attest:

  
Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

  
Secretary of Agriculture



<p align="center"><b>U.S. DEPARTMENT OF AGRICULTURE</b>  <b>AGRICULTURAL MARKETING SERVICE</b>  <b>SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE</b></p> <p align="center"><b>APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE</b>  <i>(Instructions and information collection burden statement on reverse)</i></p>		<p><i>The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.</i></p> <p><i>Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).</i></p>	
<p><b>NAME OF OWNER</b></p> <p>Florida Agricultural Experiment Station  <del>University of Florida, IFAS</del> <span style="float: right;">RAO 5/6/05</span></p>		<p><b>2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME</b></p> <p>UF98116</p>	<p><b>3. VARIETY NAME</b></p> <p>AP-3</p>
<p><b>ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)</b></p> <p>Office of Dean for Research          1022 McCarty Hall, University of Florida          P. O. Box 110200          Gainesville, FL 32611-0200</p>		<p><b>5. TELEPHONE (include area code)</b></p> <p>352-392-1784</p>	<p align="center"><b>FOR OFFICIAL USE ONLY</b></p> <p><b>PVPO NUMBER</b></p> <p align="center"><b>2003 00320</b></p> <p><b>FILING DATE</b></p> <p align="center">August 22, 2003</p>
<p><b>6. FAX (include area code)</b></p> <p>352-392-4965</p>	<p><b>8. IF INCORPORATED, GIVE STATE OF INCORPORATION</b></p> <p>NA</p>	<p><b>9. DATE OF INCORPORATION</b></p> <p>NA</p>	
<p><b>IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.)</b></p> <p>Florida Ag. Exp. Stn. (Public)</p>		<p><b>NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)</b></p> <p>Dr. Daniel W. Gorbet          North Florida Research and Education Center          3925 Highway 71          Marianna, FL 32446</p>	
<p><b>TELEPHONE (include area code)</b></p> <p>850-482-9956</p>		<p><b>12. FAX (include area code)</b></p> <p>850-482-9917</p>	<p><b>14. CROP KIND (Common Name)</b></p> <p>Peanut</p>
<p><b>GENUS AND SPECIES NAME OF CROP</b></p> <p><u>Arachis hypogaea</u> L.</p>		<p><b>16. FAMILY NAME (Botanical)</b></p> <p>Leguminosae</p>	<p><b>17. IS THE VARIETY A FIRST GENERATION HYBRID?</b></p> <p align="center"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p><b>CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)</b></p> <p>a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety</p> <p>b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness</p> <p>c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety</p> <p>d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional)</p> <p>e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership</p> <p>f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)</p> <p>g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)</p>		<p><b>19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act)</b></p> <p align="center"><input checked="" type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input type="checkbox"/> NO (If "no", go to item 22)</p> <p><b>20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?</b></p> <p align="center"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, WHICH CLASSES? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED</p> <p><b>21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?</b></p> <p align="center"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.</p> <p align="center"><input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED</p> <p align="center"><i>(If additional explanation is necessary, please use the space indicated on the reverse.)</i></p>	
<p><b>HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?</b></p> <p align="center"><input checked="" type="checkbox"/> YES May 2003 <input type="checkbox"/> NO</p> <p>IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. <i>(Please use space indicated on reverse.)</i></p>		<p><b>23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?</b></p> <p align="center"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. <i>(Please use space indicated on reverse.)</i></p>	
<p>The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.</p> <p>The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.</p> <p>Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.</p>			
<p><b>SIGNATURE OF OWNER</b></p> <p></p>		<p><b>SIGNATURE OF OWNER</b></p> <p></p>	
<p><b>NAME (Please print or type)</b></p> <p>Daniel W. Gorbet</p>		<p><b>NAME (Please print or type)</b></p> <p>Richard L. Jones</p>	
<p><b>CAPACITY OR TITLE</b></p> <p>Professor/Breeder</p>	<p><b>DATE</b></p> <p>July 14, 2003</p>	<p><b>CAPACITY OR TITLE</b></p> <p>Dean for Research</p>	<p><b>DATE</b></p> <p>July 24, 2003</p>

**GENERAL:** To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

## Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

## ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

As noted (Breeder, Foundation, Registered, Certified - One year each).

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

May 2003 (Foundation)

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NA

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705.

Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (02-10-2003) designed by the Plant Variety Protection Office with Word 2000. Replaces former versions of ST-470, which are obsolete.

## Exhibit A - Origin and Breeding History of Variety (AP-3)

AP-3 (UF98116) came from a cross made in the greenhouse at Marianna (NFREC), Florida in 1990. The cross was made to develop material to select for a medium maturity cultivar with improved resistance to stem rot/white mold (*S. rolfsii*) and *Cylindrocladium crotalarie* (CBR), with good pod yields and grades.

AP-3 = UF98116 = 90 x 7-3-5-1-b2-B  
[OKFH 15 x NC 3033]

The female parent is a sisterline of 'Okrun', which came from a cross of 'Florunner' with the Spanish variety 'Spanhoma'. The male parent is NC 3033, which is a germplasm line released by the North Carolina State University program as a source of resistance to stem rot (*S. rolfsii*) and CBR, being a small seeded Virginia type. Both parents are *Arachis hypogaea* sp *hypogaea* Var. *hypogaea*. A pedigree selection program was followed in the F<sub>1</sub> - F<sub>5</sub> generations under sprayed (leafspot), medium/high management production conditions. Limited pressure was applied in the fields from *S. rolfsii* and/or CBR but no fungicides were used to control these two diseases. Population size varied from about 120-30 plants for the F<sub>2</sub> - F<sub>5</sub> and single plants were used to advance generations that ultimately resulted in AP-3. Seed from two F<sub>5</sub> plants were bulked to produce AP-3.

AP-3 was first put in field yield tests at Marianna in the F<sub>6</sub> in 1996 and was tested at Gainesville in 1998-2004. AP-3 is a runner market-type peanut with semi-prostrate to spreading growth habit, classified a *Arachis hypogaea hypogaea*. The branching, growth habit, foliage color, and leaf size and shape are normal. The foliage tends to be somewhat lighter green than Florunner. Seed of AP-3 are tan (testa) and rounded to somewhat elongated, being somewhat more elongated than Florunner.

Plots and seed increases of AP-3 have been uniform in plant/pod/seed characteristics. AP-3 has been uniform and stable for phenotype of plant/pods/seed with no variants observed since the initial yield tests to present.

## References:

- 1) Banks, D. J., J. S. Kirby, and J. R. Sholar. 1989. Registration of 'Okrun' Peanut. Crop Sci. 29:1574.
- 2) Beute, M. F., J. C. Wynne, and D. A. Emery. 1976. Registration of NC 3033 peanut germplasm. Crop Sci. 16:887.
- 3) Gorbet, Daniel W. 2003. AP-3 - A new medium maturity peanut cultivar. UF Agric. Expt. Sta., NFREC Res. Rpt. 03-8. 5 p.
- 4) Norden, A. J., R. W. Lipscomb, and W. A. Carver. 1969. Florunner, a new peanut variety. UF Agric. Expt. Sta. Cir. S-196.

16.b

Exhibit B - Novelty Statement (AP-3)

AP-3 is a runner market-type peanut. AP-3 is most similar to Carver, which is a sisterline from the same cross. AP-3 differs from Carver in having somewhat larger seed with a tan testa and Carver has pink testa. Also, AP-3 has stronger resistance to tomato spotted wilt virus and white mold (*S. rolfsii*) (table 3). Also, the growth habit of Carver is somewhat more prostrate than for AP-3.

16.c

Exhibit C - Objective Description of Variety ( AP-3)

AP-3 is a runner market-type peanut (*Arachis hypogaea* L.) with a semi-prostrate to spreading growth habit. The foliage is medium to somewhat lighter green, being similar to SunOleic 95R and Carver. Seed of AP-3 are plump, rounded to somewhat elongated with a tan testa and a 100-seed weight of  $66 \pm 2$  g. AP-3 has excellent resistance to tomato spotted wilt virus (TSWV) and white mold (*S. rolfsii*) (tables 2 and 3, Exhibit D). The oil quality of AP-3 is normal but good (O/L = 2.8), with an oil content of about 48%, similar to Carver (table 4).

Disease resistance, yield, grade, chemistry, and other data are given in Exhibit D.

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION  
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY  
PEANUT (*Arachis hypogaea*)

NAME OF APPLICANT(S) Florida Agricultural Experiment Station	VARIETY NAME OR TEMPORARY DESIGNATION AP-3
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Office of Dean for Research 1022 McCarty Hall, University of Florida P. O. Box 110200, Gainesville, FL 32611-0200	FOR OFFICIAL USE ONLY PVPO NUMBER <b>2003 00320</b>

Place the appropriate number that describes the varietal character of this variety in the boxes below.  
Place a zero in first box (e.g.  or ) when number is either 99 or less or 9 or less.

## 1. BOTANICAL TYPE:

<input type="text" value="1"/>	Flowering on the Main Stem:	1 = ABSENT	2 = PRESENT
<input type="text" value="1"/>	Branching Pattern:	1 = ALTERNATE — Pairs of vegetative & reproductive branches (Virginia)	3 = OTHER (Specify) _____
		2 = SEQUENTIAL — Continuous reproductive branches (Valencia—Spanish)	

## 2. PLANT:

<input type="text" value="1"/>	Habit:	1 = PROSTRATE (Florunner)	2 = DECUMBENT (NC-5)	<input type="text" value="3"/>	Branching:	1 = SPARSE (Valencia)	2 = MODERATE (Starr)
		3 = SEMI-ERECT (Florispán)	4 = ERECT (Starr)			3 = PROFUSE (Florunner)	

## 3. MATURITY:

<input type="text" value="2"/>	Region:	1 = VIRGINIA, NORTH CAROLINA	2 = S.E. UNITED STATES	3 = S.W. UNITED STATES	4 = OTHER
<input type="text" value="1"/> <input type="text" value="3"/> <input type="text" value="7"/>	NUMBER OF DAYS TO MATURITY				
<input type="text" value="0"/>	NO. OF DAYS EARLIER THAN . . . . .	<input type="text" value="2"/>	1 = STARR    2 = FLORUNNER    3 = FLORIGIANT		
<input type="text" value="0"/>	NO. OF DAYS LATER THAN . . . . .	<input type="text" value="0"/>	4 = VIRGINIA 61R    5 = NC-2		
		<input type="text" value="0"/>	6 = NC-5    7 = SOUTHEASTERN RUNNER 56-15		
		<input type="text" value="0"/>	8 = OTHER (Specify) _____		

## 4. LEAVES:

<input type="text" value="2"/>	COLOR AT 60 DAYS: (Nickerson Color Designation):	1 = LIGHT GREEN (10Gy 6/9)	2 = MEDIUM GREEN (2.5G 5/9)
		3 = DARK GREEN (5G 4/7)	4 = OTHER (Specify) _____
<input type="text" value="5"/> <input type="text" value="6"/>	MM. LEAFLET LENGTH (Basal leaflet of the youngest fully opened leaf)		
<input type="text" value="2"/> <input type="text" value="4"/>	LEAFLET LENGTH/WIDTH RATIO		

## 5. POD: (Average for 20 pods at maturity)

<input type="text" value="3"/> <input type="text" value="0"/>	MM. LENGTH	<input type="text" value="1"/> <input type="text" value="3"/>	MM. DIAMETER
<input type="text" value="5"/> <input type="text" value="1"/> <input type="text" value="9"/> <input type="text" value="6"/>	KG./HA. POD YIELD		
<input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/>	% LESS THAN . . . . .	<input type="text" value="0"/>	1 = STARR    2 = FLORUNNER    3 = FLORIGIANT
<input type="text" value="3"/> <input type="text" value="0"/>	% MORE THAN . . . . .	<input type="text" value="8"/>	4 = VIRGINIA 61R    5 = NC-2
		<input type="text" value="8"/>	6 = NC-5    7 = SOUTHEASTERN RUNNER 56-15
		<input type="text" value="8"/>	8 = OTHER (Specify) <u>Georgia Green</u>
<input type="text" value="0"/> <input type="text" value="4"/>	% FANCY SIZE: (% riding 13.46 mm., 34/64 inch, spacing set on presizer roller)		

5. **POD (Average for 20 pods at maturity):**

2	NUMBER OF SEEDS PER POD:	1 = 1	2 = 2	3 = 3	4 = 3-4	5 = 2-3-4
2	CONstriction:	1 = SHALLOW OR NONE ( <i>Virginia 56R, Argentine</i> )			2 = MEDIUM ( <i>Virginia 61R</i> )	3 = DEEP ( <i>Starr</i> )
1	SURFACE:	1 = GLABROUS ( <i>Florunner</i> )		2 = PUBESCENT ( <i>Florispan</i> )		
2	BEAK:	1 = ABSENT		2 = INCONSPICUOUS	3 = PRONOUNCED	

6. SEED (Mature, cured but not aged):

<div style="border: 1px solid black; padding: 2px; display: inline-block; width: 30px; height: 30px; text-align: center; line-height: 30px;">3</div>	COAT COLOR:	1 = WHITE ( <i>Pearl</i> )	2 = CREAM	3 = TAN ( <i>Starr</i> )	4 = BROWN	5 = PINK ( <i>Florigiant</i> )
		6 = RED	7 = PURPLE	8 = DARK PURPLE	9 = VARIGATED	
		10 = OTHER ( <i>Specify</i> ) _____				
<div style="border: 1px solid black; padding: 2px; display: inline-block; width: 30px; height: 30px; text-align: center; line-height: 30px;">1</div>	COAT SURFACE:	1 = SMOOTH	2 = INDENTED	<div style="border: 1px solid black; padding: 2px; display: inline-block; width: 30px; height: 30px; text-align: center; line-height: 30px;">2</div>	1 = UNIFORM COLOR	2 = BLEMISHED
		1 = SPHERIODAL ( <i>Starr</i> )      2 = SHORT-BROAD ( <i>Florunner</i> )      3 = ELONGATED-SLENDER ( <i>Dixie Runner</i> )				
<div style="border: 1px solid black; padding: 2px; display: inline-block; width: 30px; height: 30px; text-align: center; line-height: 30px;">4</div>	SHAPE:	4 = CYLINDRICAL-TAPERED ENDS				5 = CYLINDRICAL-BLUNT ENDS ( <i>NC-2</i> )
		6 = OTHER ( <i>Specify</i> ) _____				

1	6	MM. LENGTH		9	MM. WIDTH	6	6	GRAMS PER 100 SEED (8% Moisture)
---	---	------------	--	---	-----------	---	---	----------------------------------

## 7. DISEASE RESISTANCE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

2	SOUTHERN STEM ROT	0	RUST
1	EARLY LEAF SPOT	0	VIRUS X
1	SOUTHERN LEAF SPOT	0	MOSAIC
0	POD ROT COMPLEX	2	OTHER (Specify) <u>Tomato Spotted Wilt Virus</u>

8. INSECT RESISTANCE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

1	THRIPS	0	BURROWING BUG
0	LEAF HOPPER	1	NEMATODE ( <i>Specify species</i> )
0	SOUTHERN CORN ROOTWORM	0	LESSER CORNSTALK BORER
0	APHID		OTHER ( <i>Specify</i> ) _____

9. COMPARISON OF SUBMITTED VARIETY WITH ONE OR MORE SIMILAR VARIETIES:

VARIETY	OIL* (%)	PROTEIN* (%)	OLEIC: * LINOLEIC ACID RATIO	IODINE* NUMBER	SHELLING (%)	SMK** (%)	ELK+ (%)	MAIN STEM HEIGHT (CM)
SUBMITTED	48	27	2.8	94	76	73	35	37
SIMILAR	48	27	2.6	96	76	74	39	38
NAME OF SIMILAR VARIETY	Carver	C-99R	Carver	Florunner	Andru II	Andru II	C-99R	SunOleic 97R

\* From Sound Mature Kernels

### **\*\* Sound Mature Kernels**

**+ Extra Large Kernels**

10. INDICATE A VARIETY WHICH MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	VARIETY	CHARACTER	VARIETY
POD COLOR	Florunner	SEEDLING VIGOR	Florunner
SEED DORMANCY	Florunner	HULL THICKNESS	Andru II
SEED SIZE	Florunner	LEAF COLOR	Andru 93

	PROGIMMEL 71157		
11.	COMMENTS (Additional description or clarification - Such as: Relative disease reactions may be compared with standard varieties)		

AP-3 has excellent resistance to tomato spotted wilt virus and to S. roflsii, with some CBR resistance.



## Exhibit D - Additional Description of Variety (AP-3)

AP-3 is a medium maturity ( $137 \pm 2$  DAP) runner market-type peanut with excellent yield potential with excellent TSWV and white mold (*S. rolf sii*) resistance. Seed of AP-3 have tan testa with normal but good oil chemistry.

Table 1 gives data on pod yields, grades, and disease (TSWV) ratings for 38 field tests conducted mainly at Marianna and Gainesville (1996-2002). These data show the pod yield advantage for AP-3 over Georgia Green. AP-3 has much stronger disease resistance for TSWV than Georgia Green. Based on 100-seed weight and ELK values, AP-3 has larger seed than Georgia Green.

Table 2 gives results from TSWV field tests grown at Marianna, Florida, and Tifton, Georgia (1998-2000). These tests were planted in early April under high disease pressure (four seed/foot of row). AP-3 clearly has much stronger TSWV resistance than the resistant check, Georgia Green, with higher pod yields and less disease.

Table 3 gives results from field tests grown at Marianna to evaluate resistance to white mold (*S. rolf sii*). All tests were inoculated at 55-60 DAP. Based on pod yields and disease ratings, AP-3 has excellent resistance to this disease.

Table 4 gives additional data on inoculated field tests for white mold (*S. rolf sii*) resistance of AP-3, compared to Carver and Georgia Green. These results support the data in table 3 for the resistance of AP-3 to *S. rolf sii*.

Table 5 gives oil chemistry from Florida lab analyses of Florida samples. The data show that AP-3 has "normal" but good oil chemistry and is similar to Carver in fatty acid (O/L) content, with similar percent oil.

Table 6 gives blanching data (1998-2001) for AP-3. Results indicate that AP-3 blanches similar to Georgia Green and Carver and should be acceptable to the trade.

Table 7 gives data on seed size distribution for AP-3 and indicates that AP-3 has larger seed size than Carver but not as large as C-99R.

Table 8 gives further data on seed chemistry and flavor evaluations for AP-3. These results further indicate AP-3 has good "normal" chemistry, similar but somewhat better than Carver and C-99R. Flavor scores for AP-3 were the same as for Georgia Green, which is the most widely grown runner cultivar in the USA.

Table 1. Pod yield and grading data for AP-3 in Florida tests (1996-2002)<sup>1</sup>.

Entry	Pod yield (lbs./A)	% TSMK <sup>2</sup>	% ELK <sup>3</sup>	100-seed wt. (g)	Disease rating <sup>4</sup>	
					A	B
AP-3	4639	73.1	34.6	65.6	2.4	3.7
Georgia Green	3536	78.2	21.5	60.1	5.0	2.5

<sup>1</sup>Data from 38 tests.

<sup>2</sup>TSMK = sound mature kernels riding a 16/64th inch slotted screen.

<sup>3</sup>ELK = extra large kernels or seed riding a 21.5/64th inch slotted screen.

<sup>4</sup>A = disease ratings on 1-10 scale, 1 = no symptoms for tomato spotted wilt virus; B = using 1-4 scale (4 = resistant).

Table 2. Tomato spotted wilt virus field tests in Florida and Georgia (1998-2000).

Year/Entry	% Disease <sup>1</sup>			Yield (kg/ha) <sup>2</sup>		
	GA	FL	Mean	GA	FL	Mean
<b>1998</b>						
Georgia Green	48.8	59.2	53.9	3940	4035	3988
Georgia Runner	80.8	80.4	80.6	3360	3236	3298
AP-3	10.8	12.5	11.7	6158	5682	5920
<b>1999</b>						
Georgia Green			60.5	2352	1594	1973
GK 7			80.0	2278	834	1556
AP-3			24.2	4610	3679	4145
<b>2000</b>						
Georgia Green	58.9	37.5	48.2	3451	4534	3993
GK 7	75.4	90.8	83.1	2280	1967	2124
AP-3	19.8	16.3	12.1	4908	4688	4887

<sup>1</sup>Disease data from Dr. Albert Culbreath, expressed as percent of plants showing severe symptoms of TSWV.

<sup>2</sup>Data from Dr. Albert Culbreath, University of Georgia, Tifton.

Table 3. Field tests inoculated with *S. rolf sii* to evaluate resistance, Marianna, FL (1999-2000).

Entry	Pod Yield (kg/ha)	Disease <sup>1</sup>	
		A	B
AP-3	4352	2.4	3.7
Carver	3111	3.3	3.2
Georgia Green	2340	4.3	2.9
SunOleic 97R	<u>1841</u>	<u>7.3</u>	<u>2.1</u>
LSD(.05)	538	0.7	0.3

<sup>1</sup>A = disease rated on a 1-10 scale (1 = no disease); B = disease rated on 1-4 scale (4 = resistant).

Table 4. Field tests inoculated with *S. rolf sii* to evaluate resistance, Marianna, FL (2001-2004).

Entry	Pod Yield (lbs./A)	Disease <sup>1</sup>	
		A	B
<b><u>2004</u></b>			
AP-3	5067	2.2	3.6
Georgia Green	3004	4.5	2.7
<b><u>2003</u></b>			
AP-3	3194	2.7	3.1
Carver	2218	3.3	3.2
Georgia Green	2126	3.3	3.2
<b><u>2002</u></b>			
AP-3	4727	2.3	3.6
Carver	3549	4.1	2.9
Georgia Green	3530	4.3	2.8
<b><u>2001</u></b>			
AP-3	4038	2.8	3.1
Carver	2773	3.3	3.2
Georgia Green	1806	4.8	2.7

<sup>1</sup>A = disease rated on 1-10 scale (1 = no disease); B = disease rated on 1-4 scale (4 = highly resistant).

Table 5. Oil chemistry for AP-3 from Florida samples (1999-2000).

Entry	Oleic FA (18:1)	Linoleic FA (18:2)	Oil <sup>1</sup>
----- % -----			
AP-3	58.9	20.7	47.9
Georgia Green	54.8	25.1	51.3
Florunner	56.0	24.1	49.9
SunOleic 97R	80.7	2.5	49.2
Carver	58.0	22.0	48.3

<sup>1</sup>Data based on no less than 10 samples for FA and four for oil.Table 6. Blanching data for AP-3 (1998-2000)<sup>1</sup>.

Entry	Splits	Whole	Not	Partial
----- % -----				
AP-3	3.3	82.8	4.3	6.5
Georgia Green	8.5	83.7	2.0	3.2
Carver	4.8	82.5	4.3	5.8

<sup>1</sup>Data from Mr. Walt Mozingo, VPI, Suffolk, VA.Table 7. Seed size distribution for AP-3<sup>1</sup>.

Entry	Percent on screen size (64 <sup>th</sup> inch)				SS	OK	Meat
	21	18	16	14			
	----- % -----						
	-						
AP-3	37.1	22.6	5.9	2.3	2.9	3.1	73.9
Carver	12.2	42.9	10.4	3.7	1.8	3.9	74.9
Andru 93	12.6	31.5	14.6	6.8	2.8	5.3	73.6
C-99R	52.0	15.2	4.0	1.8	1.4	2.0	76.4

<sup>1</sup>Data from five pound pod samples.

Table 8. Seed chemistry and flavor data for AP-3 from a commercial lab.

Entry	Fatty Acid (%)			% Oil	% Sugar	Iodine Value	Flavor <sup>1</sup>
	16:0	18:1	18:2				
AP-3	8.9	56.9	21.8	47.0	3.7	93.1	4.0
Carver	9.5	51.9	26.2	49.4	4.0	96.2	5.0
Georgia Green	9.7	51.4	28.1	49.3	3.2	98.3	4.0
C-99R	9.2	53.2	24.8	47.0	3.3	95.4	5.0
SunOleic 97R	5.5	80.5	3.1	48.1	3.5	79.8	5.2

<sup>1</sup>Flavor rated on 1-10, 10 = strong.

U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

**EXHIBIT E**  
**STATEMENT OF THE BASIS OF OWNERSHIP**

## 1. NAME OF APPLICANT(S)

5/6/05 Florida Agricultural Experiment Station  
University of Florida/IFAS

## 2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER

UF98116

## 3. VARIETY NAME

AP-3

## 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)

Office of Dean for Research  
1022 McCarty Hall, University of Florida  
P. O. Box 110200  
Gainesville, FL 32611-0200

## 5. TELEPHONE (include area code)

352-392-1784

## 6. FAX (include area code)

352-392-4965

## 7. PVPO NUMBER

2003 00320

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain.

☒ YES☐ NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company?

If no, give name of country

☒ YES☐ NO

10. Is the applicant the original breeder? If no, please answer the following:

☒ YES☐ NO

a. If original rights to variety were owned by individual(s):

Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country

b. If original rights to variety were owned by a company:

Is the original breeder(s) U.S. based company? If no, give name of country

☒ YES☐ NO

11. Additional explanation on ownership (If needed, use reverse for extra space):

D. W. Gorbet (Professor) - peanut breeder for Florida Agricultural Experiment Station.

**PLEASE NOTE:**

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

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16e.

**Ownership Statement (AP-3)**

AP-3 originates from a cross made in the greenhouse at Marianna NFREC in 1990 by D. W. Gorbet. All selections were made under a sprayed (leafspot) management program with medium/high management. A pedigree selection program was followed and seed from two F<sub>5</sub> plants were bulked to initiate yield tests at Marianna in 1996. UF98116 was tested at Marianna and Gainesville beginning in 1998. UF98116 was approved for release by the Florida Agricultural Experiment Station (FAES) as a new multiple disease resistant peanut cultivar in 2003, named AP-3.

Florida Foundation Seed Producers, Inc. (FFSP) is the designated agent for FAES and authorized to sell foundation seed of AP-3 to qualified handlers. Only companies with approved contracts are authorized to sell AP-3 seed (registered, certified).

AP-3 was developed by FAES scientist (breeder). By agreement between the breeder and FAES, this invention belongs to FAES and all rights, access, and use of this invention shall be in accordance with FAES policy.